

GEON® Rigid A-6601

GEON Performance Solutions - Rigid Polyvinyl Chloride

Tuesday, June 18, 2024

General Information

Product Description

Novablend A-6601 is a high impact, high flow, opaque, injection molding compound. Novablend A-6601 compound is designed to process easily with excellent weld line and electrical properties. These compounds can be modified to enhance UV stability for outdoor or interior applications.

General

Material Status	• Commercial: Active
Availability	• North America
Additive	• Impact Modifier
Features	• High Flow • Impact Modified
Uses	• Outdoor Applications
Agency Ratings	• UL f1
Appearance	• Opaque
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.34	1.34	ASTM D792
Molding Shrinkage - Flow	2.0E-3 to 5.0E-3 in/in	0.20 to 0.50 %	ASTM D955
Outdoor Suitability	f1	f1	UL 746C
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus ²	410000 psi	2830 MPa	ASTM D638
Tensile Strength	5800 psi	40.0 MPa	ASTM D638
Flexural Modulus	410000 psi	2830 MPa	ASTM D790
Flexural Strength	11200 psi	77.2 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	16 ft-lb/in	850 J/m	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D, 15 sec)	81	81	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	156 °F	68.7 °C	
RTI Elec (0.06 in (1.5 mm))	221 °F	105 °C	UL 746B
RTI Imp (0.06 in (1.5 mm))	221 °F	105 °C	UL 746B
RTI Str (0.06 in (1.5 mm))	221 °F	105 °C	UL 746B
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Volume Resistivity	15 ohms-cm	15 ohms-cm	IEC 60093
Dielectric Strength	510 V/mil	20 kV/mm	ASTM D149

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Flammability	Nominal Value (English)		Nominal Value (SI)		Test Method
Flame Rating					UL 94
0.06 in (1.5 mm), All	•	V-0	•	V-0	IEC 60695-11-10, -20
	•	5VB	•	5VB	
0.12 in (3.0 mm), All ³		5VA		5VA	

Processing Information				
Injection	Nominal Value (English)		Nominal Value (SI)	
Processing (Melt) Temp	390 to 405 °F		199 to 207 °C	

Notes

- ¹ Typical properties: these are not to be construed as specifications.
- ² Type I
- ³ Also UL 94 V-O @ 0.059 in thick.